

Fish 1881

No. III

Census of 1880. -

Statistics of Fisheries, Marine

Part of. -Name of vesselRig.TonnageWhere built.When built.Original cost.Present value.

; of tide,

No of crew.

Nationality. American Nova Scotian
 Swedish etc. Irish French
 English ^{fathian} Portuguese Negro

What fishery engaged inWhere fishing.Deposition made of fish

Gross stock 18 -

Profits 18 -

Average share of crew.

No bbls mackerel, 187 (total)

No. within 3-miles limit

No lbs other fish 18 - (total)

No. within 3 miles limit

Name of ~~the fish~~ ^{master} officer,

Name of Agent or owner.

Name of person giving information.

Name of recorder.

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1030

R.-Dredge.

✓ *Synaphobranchus*

1

✓ *Scopelus*

2+3

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1030

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. $39^{\circ} 58' 30''$

W. lon. $69^{\circ} 15'$

Time of day, 1.52 P.M. ; of tide,

State of sky, b. sky

Temperature of air, 65

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 41

Depth, in fathoms, 337

Nature of bottom, yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1031 Trawl tore.

✓ <i>Scopelus</i> (? two species)	14
✓ <i>Cottunculus microps</i>	3
✓ <i>Raia</i> very young	1
✓ <i>Sebastes marinus</i>	1
✓ <i>Phycis tenuis</i>	1
✓ " <i>Chesteri</i>	20
<i>Macrurus Bairdii</i>	7
<i>Raia</i> egg large (not kept)	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1031

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. $39^{\circ} 57'$
N. lon. $69^{\circ} 19'$

Time of day, 2.54 P.M.; of tide,

State of sky, foggy

Temperature of air, 64

" surface of water, 65-

" at depth of 5 fathoms, 63.5-

" of bottom, 255-

Depth, in fathoms, 255

Nature of bottom, yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1032 Small beam trawl

✓	Macrurus	Bairdii	many
✓	"	carminatus	8
✓	Setarches	parvatus	5
✓	Phycis	Chesteri	2/pails full
✓	Merluccius		19
✓	Lycodes	verillii ♀	1
	Rain	eggs small	7
✓	Phycis	Chuss	13
✓	Scopelus		2
✓	Paralichthys	oblongus	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1032

Date, Sept 14 1887

Locality, N. lat. $39^{\circ} 56'$

Bearings, W. long. $69^{\circ} 22'$

Time of day, 4 P. M. ; of tide,

State of sky, Cloudy

Temperature of air, 65-

" surface of water, 65-

" at depth of 5 fathoms, 63.5-

" of bottom, 46

Depth, in fathoms, 208

Nature of bottom, Yellow mud

Direction of surface current.

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1033

✓ Scophelus	not kept	2
✓ Dogfish	<i>Myliinus</i>	1
✓ Paralichthys	oblongus	4
✓ Merluccius		16
Acanthias	Pomoides	
✓ Macrurus	caerminatus	31
✓ Phycis	Chester's	3 + 51
✓ "	Chen	14
✓ Glyptocephalus		1
Raja	juv.	1
✓ Argyropelecus?	1 <u>lost</u> .	
✓ Setarches	parvatus	4

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1033*

Date, *Sept. 14 1887*

Locality,

Bearings, *N. lat. 39° 56'*

W. lon. 69° 24'

Time of day, *4.55 P.M.*; of tide,

State of sky, *b. c.*

Temperature of air, *66*

" surface of water, *63*

" at depth of *5* fathoms, *63*

" of bottom,

Depth, in fathoms, *183*

Nature of bottom, *s. g.*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1034 Trawl fouled

Scopelus

1 + 2

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1034

Date, Sept. 14, 1881.

Locality, N. Lat. $39^{\circ} 56'$

Bearings, W. Lon. $69^{\circ} 26'$

Time of day, 5.55 P.M.; of tide,

State of sky, b. c.

Temperature of air, 66.

" surface of water, 62

" at depth of 5 fathoms, 60

" of bottom, 46.5

Depth, in fathoms, 146

Nature of bottom, sand + yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1035

Lophius	ad	1
Ophichthys ?		2
Citharichthys	arc.	2
Merluccius		4
Phycis	chuss ?	27
"	terre ?	7

TEMPERATURE RECORD.

Instrument used, *12 in. Fowl*

Current number of observation, *1035*

Date, *Sept. 14, 1881.*

Locality,

Bearings, *N. lat. 3° 52'*

W. lon. 69° 28'

Time of day, *6.56 P.M.*; of tide,

State of sky, *b. c.*

Temperature of air, *65*

" surface of water, *62*

" at depth of *5* fathoms, *60*

" of bottom, *47*

Depth, in fathoms, *120*

Nature of bottom, *sand*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1036 R. Dredge

Ophidion		juv.	1
Ophichthys ?	fragment		1

TEMPERATURE RECORD.

Instrument used, *Rake Dredge*
Current number of observation, *1036*
Date, *Sept. 14, 1881.*
Locality, _____
Bearings, *N. Lat. 39° 58'*
W. Lon. 49° 40'
Time of day, *7.54 P.M.*; of tide, _____
State of sky, *b. c.*
Temperature of air, *62*
" surface of water, *61.5*
" at depth of _____ fathoms, _____
" of bottom, *51*
Depth, in fathoms, *94*
Nature of bottom, *Sand*
Direction of surface current, _____
Force of surface current, _____
Direction of bottom current, _____
Force of bottom current, _____
Name of vessel, _____
To what service attached, _____
Name and rank of commanding officer, _____
Name and position of observer, _____

REMARKS.

Haul 1037 ~~1038~~

~~Gitt. whit. sp. ant. f.~~ ~~+~~

TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation,

Date, *Sept. 15, 1881.*

Locality, *Off Roman's Land*

Bearings, *Gay Head N. by E. $\frac{3}{4}$ E.*

Time of day, *8 A.M.* ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, *8*

Nature of bottom, *Sand (supposed mud)*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1038

✓ <i>Myxine glutinosa</i>	3
✓ <i>Setarches parmatius</i>	5+4+23+3
✓ <i>Citharichthys arctif.</i>	juv 1+30
✓ <i>Raja lasus</i> ? juv.	3
✓ <i>Monolene seselicauda</i>	1
✓ <i>Glyptocephalus cynoglossus</i>	1
✓ <i>Paralichthys oblongus</i>	3
✓ <i>Merluccius bilinearis</i>	14
✓ <i>Phycis chuss</i>	1
✓ <i>Scopelus</i> 2 species	3
✓ <i>Raja aglantina</i> ? juv.	4
✓ <i>Hippoglossoides</i> "	2
✓ <i>Calinectes</i> ? juv. at surface.	1
✓ <i>Hyphalonedrus chalybeius</i>	6+1
✓ <i>Macurus carminatus</i>	1

Trawl-line :

✓ <i>Squalus acanthias</i> ♂	1
✓ <i>Phycis tenuis</i>	1
✓ <i>Merluccius</i>	2

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1038*
Date, *Sept. 21, 1881.*
Locality, *Off Martha's Vineyard.*
Bearings, *N. lat. 39° 58'*
W. lon. 70° 06'
Time of day, *8.55 a.m.*; of tide,
State of sky, *Hazy*
Temperature of air, *67*
“ surface of water, *67*
“ at depth of *5* fathoms, *68*
“ of bottom, *47*
Depth, in fathoms, *146*
Nature of bottom, *S. & sh.*
Direction of surface current.
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

Haul 1039 fouled

Citharichthys arcifrons 1

Monacanthus at surface 6

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, 1039

Date, Sept. 21, 1881.

Locality, Off Martha's Vineyard.

Bearings, N. lat. $39^{\circ} 59'$

W. lon. $70^{\circ} 06'$

Time of day, 9.35 A.M.; of tide, _____

State of sky, Hazy

Temperature of air, 66.30

" surface of water, 67

" at depth of 5 fathoms, 68

" of bottom, 50

Depth, in fathoms, 130 - 136

Nature of bottom, s. + sh.

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

Haul 1040 Ex-Dredge.

Glyptocephalus cynoglossus 2

TEMPERATURE RECORD.

Instrument used, *Excelsior Dredge*.
Current number of observation, *1040*
Date, *Sept. 21, 1887.*
Locality, *Off Martha's Vineyard*
Bearings, *N. lat. 40° 00'*
N. lon. 70° 06'
Time of day, *10.43 a.m.* of tide,
State of sky, *hazy*
Temperature of air, *64*
" surface of water, *68*
" at depth of fathoms,
" of bottom, *66*
Depth, in fathoms, *93*
Nature of bottom, *s. + sh.*
Direction of surface current.
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

Haul 1041

<i>Tautoglabrus</i>	2
<i>Centropomus atrinus</i> juv.	3
<i>Stenotomus argyrops</i> "	14
<i>Prionotus carolinus</i> "	2
<i>Raja erinacea</i> egg	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1041

Date, Sept. 22, 1881,

Locality, Vineyard Sound

Bearings, West Chop Light
E $\frac{1}{2}$ N, $1\frac{3}{4}$ miles

Time of day, 12.33 P.M.; of tide,

State of sky, b. c.

Temperature of air, 63.3

" surface of water, 65

" at depth of 5 fathoms, 65

" of bottom, 65

Depth, in fathoms, 9

Nature of bottom, gr.

Direction of ~~surface current~~ ^{wind} S S W

Force of ~~surface current~~ ^{wind} 4

Direction of ~~bottom current~~ ^{drift} N. S. W. $\frac{3}{4}$ m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1042

<i>Raja erinacea</i>		2
<i>Stenotomus argyrops</i>	juv.	
<i>Centropristis atrarius</i>	"	
<i>Prionotus carolinus</i>	"	
<i>Tautoglabrus adspersus</i>	"	

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date, *Sept. 22, 1881.*

Locality, ~~Off~~ *Wineyard Sound*

Bearings, *West Chop Light*
E. $\frac{1}{2}$ N. 1 $\frac{1}{2}$ miles

Time of day, *1.17 P.M.* ; of tide,

State of sky, *b. c.*

Temperature of air, *63.3*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *65*

Depth, in fathoms, *6*

Nature of bottom, *s. gravel*

Direction of ~~surface current~~ *wind* *S S W*

Force of ~~surface current~~ *wind* *5*

Direction of ~~surface current~~ *drift* *N. by N., $\frac{1}{2}$ m.*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

- ✓ *Brotulid*
- ✓ *Enchelyopus cimbrius*
- ✓ *Scyllium*
- ✓ *Phycis chuss*
- ✓ *Hyphalonedrus chalybeius*
- ✓ *Peristedium miniatum*
- ✓ *Merluccius bilinearis*
- ✓ *Scorpaena*

TEMPERATURE RECORD.

Instrument used, *Trawl.*

Current number of observation, *1043.*

Date, *Oct. 10, 1881.*

Locality, *Off Capes of Delaware.*

Bearings, *Lat. 38° 39' N.*

Long. 73° 11' W.

Time of day, *7:17 a.m.*; of tide,

State of sky, *partly cloudy.*

Temperature of air, *63.5*

" surface of water, *65.5*

" at depth of *5* fathoms, *65.5*

" of bottom, *149*

Depth, in fathoms, *130*

Nature of bottom, *sand*

Direction of ~~surface current~~, *wind N N E.*

Force of ~~surface current~~, *" 4*

Direction of ~~bottom current~~, *drift N W. by N., 1 3/4 m.*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Maurolicus
✓ Scopelus

(Surface)

TEMPERATURE RECORD.

Instrument used, *Trawl.*

Current number of observation, *1044*

Date, *Oct. 10, 1881.*

Locality, *Off Capes of Delaware.*

Bearings, *Lat. 38° 37' N.*

Long. 73° 12' W.

Time of day, *8.15 A.M.*; of tide,

State of sky, *Cir. Cum.*

Temperature of air, *65*

" surface of water, *66*

" at depth of *5* fathoms, *66*

" of bottom, *42.5*

Depth, in fathoms, *224*

Nature of bottom, *Gray mud.*

Direction of ~~surface current~~, *wind*, *NN.*

Force of ~~surface current~~, " *3*

Direction of ~~bottom current~~, *drift*, *NNW. 1/2 N.*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

*Came up empty. Deepened to
300 fms.*

REMARKS.

- ✓ *Phycis tenuis* *Læmonema*
- ✓ *Phycis* *Chesteri*
- ✓ *Macrurus* *carminatus*
- ✓ " *Bairdii*
- ✓ *Scorpaena*
- ✓ *Halientæa* *senticosa*
- ✓ *Hoplostethus*
- Phycis* *very young*
- ✓ *Glyptocephalus* *cynoglossus*

TEMPERATURE RECORD.

Instrument used, *Trawl.*

Current number of observation, *1045.*

Date, *Oct. 10, 1881.*

Locality, *Off Capes of Delaware.*

Bearings, *Lat. 38° 35' N.*

Lon. 73° 13' W.

Time of day, *9.32 A.M.*; of tide,

State of sky, *partly cloudy.*

Temperature of air, *67*

" surface of water, *66*

" at depth of *5* fathoms, *66*

" of bottom, *40*

Depth, in fathoms, *312*

Nature of bottom, *gray mud.*

Direction of ~~surface current~~ wind, *NNW.*

Force of ~~surface current~~ " *3*

Direction of ~~bottom current~~ drift, *N ³/₄ N, ³/₄ m.*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

- ✓ *Peristedium miniatum*
Phycis very young
- ✓ *Macrurus carminatus*

TEMPERATURE RECORD.

Instrument used, *Trawl,*
Current number of observation, *1046.*
Date, *Oct. 10, 1881.*
Locality, *Lat. 38° 33' N Off Cape of Del.*
Bearings, *Lat. 38° 33' N.*
Lon. 73° 18' W.
Time of day, *11.14 A.M.*; of tide,
State of sky, *Clear.*
Temperature of air, *66*
" surface of water, *66*
" at depth of *5* fathoms, *65*
" of bottom, *57.*
Depth, in fathoms, *104*
Nature of bottom, *sand*
Direction of ~~surface~~ current, *wind; N.*
Force of ~~surface~~ current, *" , 4*
Direction of ~~bottom~~ current, *drift, N N N, 3/4 m.*
Force of bottom current.
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

- ✓ *Peristedium miniatum*
- ✓ *Myxine glutinosa*
- ✓ *Scorpaena*
- ✓ *Merluccius bilinearis*
- ✓ *Hyphalonedrus chalybeius*
- ✓ *Raia* young
- ✓ *Citharichthys arctifrons*
- ✓ *Macrurus carminatus*
- ✓ *Glyptocephalus cynoglossus*

Living specimen of Dolium.

TEMPERATURE RECORD.

Instrument used, *Trawl*,
 Current number of observation, *1047*,
 Date, *Oct. 10, 1881*.
 Locality, *Off Capes of Delaware*.
 Bearings, *Lat. 38° 31' N.*
Lon. 73° 21' W.
 Time of day, *12.15 P.M.*; of tide,
 State of sky, *Clear*
 Temperature of air, *69*
 " surface of water, *66*
 " at depth of *5* fathoms, *65*
 " of bottom, *49*
 Depth, in fathoms, *156*
 Nature of bottom, *Sand*
 Direction of ~~surface current~~, *wind, N.*
 Force of ~~surface current~~, " , *4*.
 Direction of ~~bottom current~~ *drift, N.W., 1 1/2 m.*
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

- ✓ *Nemichthys scolopaceus*
- ✓ *Stomias ferox*
- ✓ *Chauliodus sloanii*
- ✓ *Gonostoma demudata*

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1048*
 Date, *Oct. 10, 1881.*
 Locality, *Off Capes of Delaware.*
 Bearings, *Lat. 38° 29' N.*
 Lon. 73° 21' W.
 Time of day, *1.55 P.M.* of tide,
 State of sky, *Clear.*
 Temperature of air, *71.*
 " surface of water, *66*
 " at depth of *5* fathoms, *65*
 " of bottom, *40*
 Depth, in fathoms, *435*
 Nature of bottom, *Mud*
 Direction of ~~surface current~~ *wind, N.*
 Force of ~~surface current~~ *" , 4*
 Direction of ~~bottom current~~, *drift, N, 2 m.*
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

- ✓ *Simenichelys parasiticus*
- ✓ *Halicutaea senticosa*
- ✓ *Synaphobranchus pinnatus*
- ✓ *Nemichthys scolopaceus*
- ✓ *Lycodes Verrillii*
- ✓ *Cottunculus torvus*
- ✓ *Lycodes* young
- ✓ *Cottunculus microps*
- ✓ *Macurus Bairdii*
- ✓ *Physis Chesteri*
- ✓ *Merluccius bilinearis*
- ✓ *Lophius piscatorius*
- ✓ *Glyptocephalus cynoglossus*

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1049*
Date, *Oct. 10, 1881.*
Locality, *Off Capes of Delaware.*
Bearings, *Lat. 38° 28' N.*
Lon. 73° 22' W.
Time of day, *3.30 P.M.*; of tide,
State of sky, *Clear*
Temperature of air, *68*
" surface of water, *66*
" at depth of *5* fathoms, *66*
" of bottom, *40*
Depth, in fathoms, *435*
Nature of bottom, *Mud*
Direction of ~~surface current~~, *wind, N.*
Force of ~~surface current~~, " , *H.*
Direction of ~~bottom current~~, *drift, NW, 2 m.*
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ “ surface of water, _____

“ “ at depth of _____ fathoms, _____

“ “ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

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TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ _____ surface of water, _____

“ _____ at depth of _____ fathoms, _____

“ _____ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

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REMARKS.

✉ Congress, at its last session, having passed an act (taking effect May 1, 1879,) "Official Postage Stamps," the Envelopes contained in this shipment are prepared after that date. Should it become necessary to use them BEFORE THAT TIME MUST be affixed.

271 Sep

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